

HICKORY  
NORTH  
CAROLINA

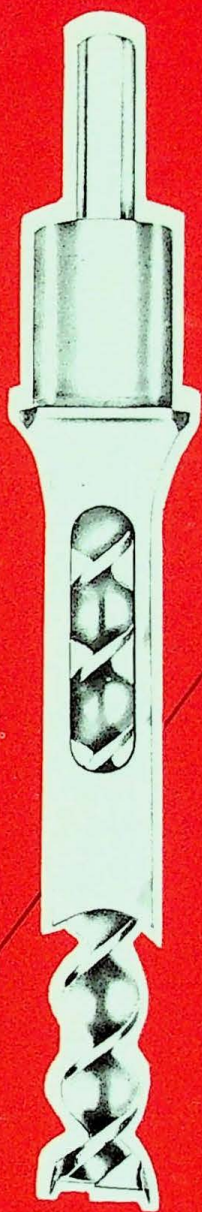
SPECIALISTS IN  
*woodworking* **TOOLS**







## MORTISING TOOLS



### INSTRUCTIONS FOR SETTING CHISELS AND BITS

— The Hollow Chisel and Bit is generally considered a very delicate tool. This is not true. This tool is practically indestructible if used properly. First, make sure your equipment is in first class condition. Check spindle play. Belt slippage if belt driven. Make sure table is level and rigid. Make sure you have adequate power for the size tool you are using. Most spindle speeds are 3600 RPM. Check with your machine manufacturer for the correct feed for various woods. It is very important to keep this tool cutting new wood at all times. Too slow a feed when you have adequate speed and horsepower causes the tool to burn.

Setting a chisel and bit for proper clearance is most

important. The head of the bit must not come in contact with the seat of the chisel. This can be accomplished by inserting the chisel and bit into their respective chucks then using a 1/32 feeler gauge or spacer of this size between the shoulder of the chisel and the bottom of the chisel chuck. Then tighten the bit securely. Remove the 1/32 gauge and push the chisel up against the bottom of the chisel chuck and tighten the chisel.

The threaded shank Hollow Chisel is easier yet to set. Simply turn the chisel 1/4 turn to the left after the correct mortise depth has been determined. Then tighten the bit and turn the chisel 1/4 turn to the right. You then have the correct setting.

Always be sure your tools are sharp.



**NO. 28 REGULAR HOLLOW  
MORTISING CHISEL**

4 In. Blade

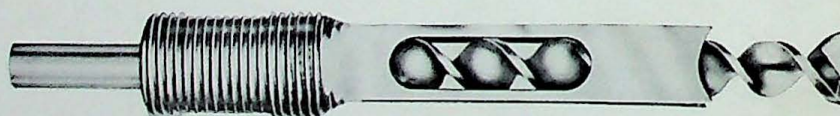
Chisel Size	Shank Dia.	Depth of Mortise	Tools per Unit	NET PRICE EACH TOOL		
				1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1/4	5/8	1-7/8	12	\$ 5.90	\$ 5.75	\$ 5.65
5/16	5/8	1-7/8	12	5.90	5.75	5.65
3/8	5/8	3-1/4	12	5.35	5.25	5.15
7/16	5/8	3-1/4	12	5.80	5.60	5.45
1/2	5/8	3-1/4	12	6.30	6.05	5.95
9/16	3/4	3-1/4	12	8.35	8.00	7.85
5/8	3/4	3-1/4	12	8.80	8.45	8.25
11/16	3/4	3-1/4	12	9.65	9.30	9.05
3/4	1-1/8	3-1/4	12	9.65	9.30	9.05
13/16	1-1/8	3-1/4	6	11.00	10.65	10.40
7/8	1-1/8	3-1/4	6	11.40	11.00	10.80
1	1-1/8	3-1/4	6	13.05	12.65	12.45

**NO. 1-28 HOLLOW CHISEL BITS**

For 4 In. Blade Hollow Chisels

Bit Size	Shank Dia.	Tools per Unit	NET PRICE EACH TOOL		
			1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1/4	3/16	18	\$2.10	\$2.00	\$1.95
5/16	1/4	18	2.10	2.00	1.95
3/8	19/64	18	2.10	2.00	1.95
7/16	19/64	18	2.20	2.10	2.00
1/2	19/64	18	2.40	2.20	2.10
9/16	19/64	18	2.70	2.50	2.35
5/8	1/2	12	3.00	2.75	2.60
11/16	1/2	12	3.50	3.20	3.05
*3/4	1/2	12	3.60	3.35	3.20
13/16	1/2	6	4.15	3.90	3.75
7/8	1/2	6	4.60	4.30	4.10
1	1/2	6	5.30	5.00	4.75

\*Hard Wood Chisel Bits—Plus 25c ea.

**NO. 30 HOLLOW MORTISING CHISEL**  
Threaded Shank for Wysong & Miles Mortisers

4 In. Blade

Chisel Size	Mortise Depth	Tools per Unit	NET PRICE EACH TOOL		
			1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1/4	2-7/8	12	\$ 6.40	\$ 6.00	\$ 5.80
5/16	2-7/8	12	6.40	6.00	5.80
3/8	3-1/4	12	6.10	5.70	5.50
1/2	3-1/4	12	7.10	6.70	6.50
5/8	3-1/4	12	9.00	8.60	8.40
3/4	3-1/4	12	10.00	9.60	9.40
13/16	3-1/4	6	11.50	11.00	10.60
7/8	3-1/4	6	12.50	12.00	11.60
1	3-1/4	6	13.50	13.00	12.60

**NO. 1-30 HOLLOW MORTISING  
CHISEL BITS**

For Threaded Shank Hollow Chisels Only

Bit Size	Shank Dia.	Tools per Unit	NET PRICE EACH TOOL		
			1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1/4	3/16	18	\$2.10	\$2.00	\$1.95
5/16	1/4	18	2.10	2.00	1.95
3/8	19/64	18	2.10	2.00	1.95
1/2	19/64	18	2.40	2.20	2.10
5/8	1/2	12	3.00	2.75	2.60
3/4	1/2	12	3.60	3.35	3.20
13/16	1/2	6	4.15	3.90	3.75
7/8	1/2	6	4.60	4.30	4.10
1	1/2	6	5.30	5.00	4.75




**NO. 21 HOLLOW MORTISING  
CHISEL**
**5 In. Blade**
**NET PRICE EACH TOOL**

Chisel Size	Shank Dia.	Mortise Depth	Tools per Unit	1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
3/8	5/8	4-1/4	6	\$ 7.35	\$ 7.20	\$ 7.10
1/2	5/8	4-1/4	6	8.35	8.20	8.10
5/8	3/4	4-1/4	4	11.35	10.95	10.55
3/4	1-1/8	4-1/4	4	12.00	11.50	11.25

**NO. 1-21 HOLLOW CHISEL BITS**  
 7 In. Twist for 5 In. Blade Hollow Chisels

**NET PRICE EACH TOOL**

Bit Size	Shank Dia.	Tools per Unit	1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
3/8	19/64	8	\$2.65	\$2.45	\$2.25
1/2	19/64	8	2.75	2.55	2.35
5/8	1/2	6	3.30	3.00	2.80
3/4	1/2	6	3.80	3.45	3.25


**NO. 27 HOLLOW MORTISING  
CHISEL**
**2-3/4 In. Blade**
**NET PRICE EACH TOOL**

Chisel Size	Shank Dia.	Mortise Depth	Tools per Unit	1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1/4	5/8	2"	8	\$4.25	\$4.15	\$4.10
5/16	5/8	2"	8	4.25	4.15	4.10
3/8	5/8	2"	8	4.25	4.15	4.10

**NO. 1-27 HOLLOW CHISEL BITS**  
 4-3/4 In. Twist for No. 27 Hollow Chisels

**NET PRICE EACH TOOL**

Bit Size	Shank Dia.	Tools per Unit	1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1/4	3/16	12	\$2.10	\$2.00	\$1.90
5/16	1/4	12	2.10	2.00	1.90
3/8	19/64	12	2.10	2.00	1.90


**NO. 25 SASH BAR HOLLOW  
MORTISING CHISELS**
**4 In. Blade**
**NET PRICE EACH TOOL**

Chisel Size	Shank Dia.	Mortise Depth	Tools per Unit	1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
3/8 x 9/16	5/8	3-1/4	3	\$ 9.80	\$ 9.50	\$ 9.20
3/8 x 5/8	5/8	3-1/4	3	9.80	9.50	9.20
3/8 x 3/4	3/4	3-1/4	3	11.10	10.75	10.40
3/8 x 13/16	3/4	3-1/4	3	11.10	10.75	10.40

**NO. 1-25 HOLLOW CHISEL BITS**  
 For No. 25 Hollow Chisels

**NET PRICE EACH TOOL**

Bit Size	Shank Dia.	Tools per Unit	1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1/2	19/64	18	\$2.40	\$2.20	\$2.10
1/2	19/64	18	2.40	2.20	2.10
5/8	1/2	12	3.00	2.75	2.60
5/8	1/2	12	3.00	2.75	2.60





### NO. 26 OBLONG HOLLOW MORTISING CHISELS

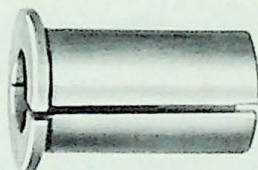
4 In. Blade

Chisel Size	Shank Dia.	Mortise Depth	Tools per Unit	NET PRICE EACH TOOL		
				1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1/4 x 5/16	5/8	1-7/8	3	\$7.10	\$6.80	\$6.50
5/16 x 3/8	5/8	1-7/8	3	6.65	6.35	6.05
3/8 x 1/2	5/8	3-1/4	3	6.90	6.60	6.30
3/8 x 5/16	5/8	3-1/4	3	7.25	6.95	6.65

### NO. 1-26 HOLLOW CHISEL BITS For No. 26 Hollow Chisels

Bit Size	Shank Dia.	Tools per Unit	NET PRICE EACH TOOL		
			1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1/4	3/16	18	\$2.10	\$2.00	\$1.95
5/16	1/4	18	2.10	2.00	1.95
3/8	19/64	18	2.10	2.00	1.95
3/8	19/64	18	2.10	2.00	1.95

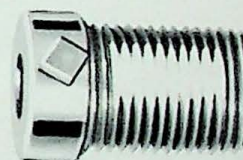
6 1/2" and 8" Blade Hollow Mortising Chisels and Bits now discontinued. Several sizes still available from stock at greatly reduced prices. Price on Application.



### NO. 1 CHISEL BUSHING

Designed to fit all mortisers using smooth shank chisels

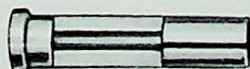
Outside Dia.	Inside Dia.	Tools per Unit	NET PRICE EACH TOOL		
			1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
7/8	5/8 or 3/4	1	\$4.35	\$4.05	\$3.80
1-1/8	5/8 or 3/4	1	6.15	5.85	5.65
1-3/8	5/8 3/4 1-1/8	1	6.45	6.15	5.95
1-3/4	5/8 3/4 1-1/8 1-3/8	1	8.20	7.90	7.70



### NO. 1W THREADED BUSHING

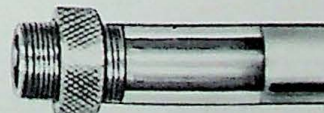
Designed to adopt Wysong & Miles mortisers for smooth shank chisels.

Inside Hole Dia.	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
5/8	2	\$6.15	\$5.85	\$5.65
3/4	2	6.15	5.85	5.65



### NO. 2 CHISEL BIT BUSHING

Outside Dia.	Inside Dia.	Tools per Unit	NET PRICE EACH TOOL		
			1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1/2	3/16 1/4 19/64	3	\$3.00	\$2.60	\$2.40



### NO. 3 CHISEL BIT BUSHING

Outside Dia.	Inside Dia.	Tools per Unit	NET PRICE EACH TOOL		
			1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
3/4	3/16, 1/4 19/64, 1/2	3	\$5.10	\$4.75	\$4.60



## -Price List-

EFFECTIVE MAY 20, 1960

# CHAIN MORTISE CUTTING EQUIPMENT

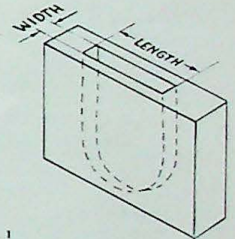
For All Chain Mortisers

**All Guide Bars, Mortise Chains, Sprockets Interchangeable with Your Present Equipment.**

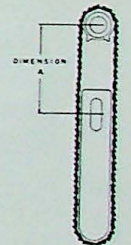
Manufactured by Monk, Worsley and Monk—the largest exclusive producers of chain mortise gear for over 35 years with world wide acceptance --

### When Ordering, Specify

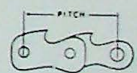
1. Width and length of mortise to be cut per cut No. 1.
2. Make of mortiser and dimension "A" cut No. 2 and we will supply chain of proper length.
3. When ordering chains only—or to duplicate chain you have—count the pitches remembering 2 outside links plus 1 inside link equal one pitch length per cut No. 3. Specify number pitches and width.
4. One full set gear consists of—1 each chain; bar and sprocket—any of which can be ordered to fit your machine.



No. 1



No. 2



No. 3

**This cutting equipment recommended for all species of wood and following materials.**

Aluminum  
Amber  
Asbestilite  
Asbestos  
Bakelite  
Beaver Board  
Bone

Cardboard  
Coconuts  
Cork  
Ebonite  
Fibre  
Fibre Board  
Hard Rubber

Lead  
Leather  
Linoleum  
Floor Compositions  
Mica Micanite  
Paper  
Papier Mache

Plaster of Paris  
Plastics  
Rawhide  
Slate  
Soapstone  
Type Metal  
Vulcanite

Guide Bars Drilled for Lubrication with Grease Nipple Supplied as Illustrated.

— DISTRIBUTED BY —

**Forest City Tool Company**  
Hickory, North Carolina

ALL PRICES SUBJECT CHANGE WITHOUT NOTICE



## .54 AND .62 PITCH CHAIN MORTISE GEAR

BOLD FACE TYPE IN PRICE COLUMN INDICATES HOUSTON STOCK

### .54 PITCH GUIDE BARS, CHAINS, SPROCKETS AND REPAIR PARTS

.54 Pitch Gear is intended to be used only where delicate and intricate work is necessary

SIZE OF MORTISE .54 PITCH			GUIDE BAR Price Each	CHAIN .54 PITCH			SPROCKET All $\frac{5}{8}$ " Bore		Bearing Complete Roller Bushing Screw	Bar End with Bearing	Set Three Loose Pitches
Width	Length	Depth		Length in Pitches			No. Teeth	Price Each			
3/16"	$\frac{3}{4}$ "	3 "	32.00	56.00	58.00	60.00	6	5.50	4.50	7.50	4.50
	$\frac{7}{8}$ "	3 $\frac{1}{2}$ "	34.00		58.00		6	5.50	4.50	7.50	4.50
1/4"	$\frac{3}{4}$ "	3 "	32.00	44.00	46.00		6	5.50	4.50	8.00	4.50
	$\frac{7}{8}$ "	3 $\frac{1}{2}$ "	See .62	Pitch	46.00	48.00	6	5.50	4.50	8.00	4.50
5/16" or 3/8"	$\frac{3}{4}$ "	3 "	34.00	48.00	50.00		6	5.50	4.50	8.50	4.50
	$\frac{7}{8}$ "	3 $\frac{1}{2}$ "	See .62	Pitch	50.00	52.00	6	5.50	4.50	9.00	4.50

### .62 PITCH GUIDE BARS, CHAINS, SPROCKETS AND REPAIR PARTS

.62 Pitch Chain is stronger than the .54 Pitch. Designed to cut all mortises  $\frac{7}{8}$ " to 1-3/8" long.

Size of Mortise			Guide Bar Price Each	.62 Pitch Mortise Chain			Sprocket		Chain and Bar Repairs			Patent Screws Price Each
Width	Length	Depth		Length in Pitches			STD $\frac{5}{8}$ " Bore		Bearing Complete with Screw	Bar End with Bearing	Set 3 Loose Pitches	
				44	46	48	No Teeth	Price Each				
1/4"	3 $\frac{1}{2}$ "	$\frac{7}{8}$ "	34.00	38.00			6	5.50	3.75	7.75	4.00	All Sizes thru $\frac{7}{16}$ " 60c Each Houston Stock
	3 $\frac{1}{2}$ "	1 "	36.00	38.00			6	5.50	3.75	7.75	4.00	
	3 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	38.00		39.50		6	5.50	3.75	8.25	4.00	
	4 $\frac{1}{2}$ "	1 $\frac{1}{4}$ "	39.00		39.50		6	5.50	5.00	8.75	4.00	
	4 $\frac{1}{2}$ "	1 $\frac{3}{8}$ "	44.00			41.50	6	5.50	5.50	9.00	4.00	
5/16" or 3/8"	3 $\frac{1}{2}$ "	$\frac{7}{8}$ "	35.00	40.00			6	5.50	3.75	7.75	4.00	Each Houston Stock
	3 $\frac{1}{2}$ "	1 "	37.50	40.00			6	5.50	3.75	8.00	4.00	
	3 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	39.00		42.50		6	5.50	3.75	8.25	4.00	
	5 "	1 $\frac{1}{4}$ "	40.00		42.50		6	5.50	5.00	8.50	4.00	
	5 "	1 $\frac{3}{8}$ "	44.00		42.50	45.00	6	5.50	5.50	9.25	4.00	
7/16"	3 $\frac{1}{2}$ "	$\frac{7}{8}$ "	35.00	42.00			6	5.50	3.75	7.75	4.50	Each Houston Stock
	3 $\frac{1}{2}$ "	1 "	36.00	42.00			6	5.50	3.75	8.00	4.50	
	3 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	37.50		45.00		6	5.50	3.75	8.25	4.50	
	5 "	1 $\frac{1}{4}$ "	39.50		45.00		6	5.50	5.00	8.50	4.50	
	5 "	1 $\frac{3}{8}$ "	44.00		45.00	48.00	6	5.50	5.50	9.25	4.50	
1/2" or 9/16"	3 $\frac{1}{2}$ "	$\frac{7}{8}$ "	35.50	42.50			6	5.50	4.00	9.00	4.50	$\frac{1}{2}$ " and $\frac{5}{8}$ " 70c Each
	3 $\frac{1}{2}$ "	1 "	36.50	42.50	46.50		6	5.50	4.00	9.50	4.50	
	3 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	37.50		46.50		6	5.50	4.00	10.00	4.50	
	5 "	1 $\frac{1}{4}$ "	29.00		46.50		6	5.50	5.50	11.00	4.50	
	5 "	1 $\frac{3}{8}$ "	46.00			48.00	6	5.50	5.50	12.00	4.50	
5/8"	3 $\frac{1}{2}$ "	1 "	42.00	45.00			6	5.50	4.00	11.00	4.50	Each
	5 "	1 $\frac{1}{4}$ "	43.00		47.00		6	5.50	6.00	12.00	5.00	

#### PRICES FOR SEPARATE CHAIN PARTS - ALL SIZES .54", .62" & .89 PITCH.

Outer Link-Right Hand	Price per 10 units.	\$5.50
Outer Link-Left Hand	Price per 10 units.	\$5.50
Center Links	Price per 10 units.	\$4.00
Chain Rivets or pins	Price per 10 units.	.75

You will note: Bold face type in price columns. This indicates stock items for immediate shipments. The day order received. **On other or special order items ordinary delivery estimate is 3-4 weeks by air mail.**

We can supply double bearing guide bars to 6" long. All sizes single and double roller gang mortising equipment or special applications to your specifications.



## .89 PITCH CHAIN MORTISE GEAR

.89 Pitch Gear for heaviest production in all materials  
Lowest first cost-longer life for all mortises over 1½" long.

**BOLD FACE TYPE IN PRICE COLUMN INDICATES HOUSTON STOCK**

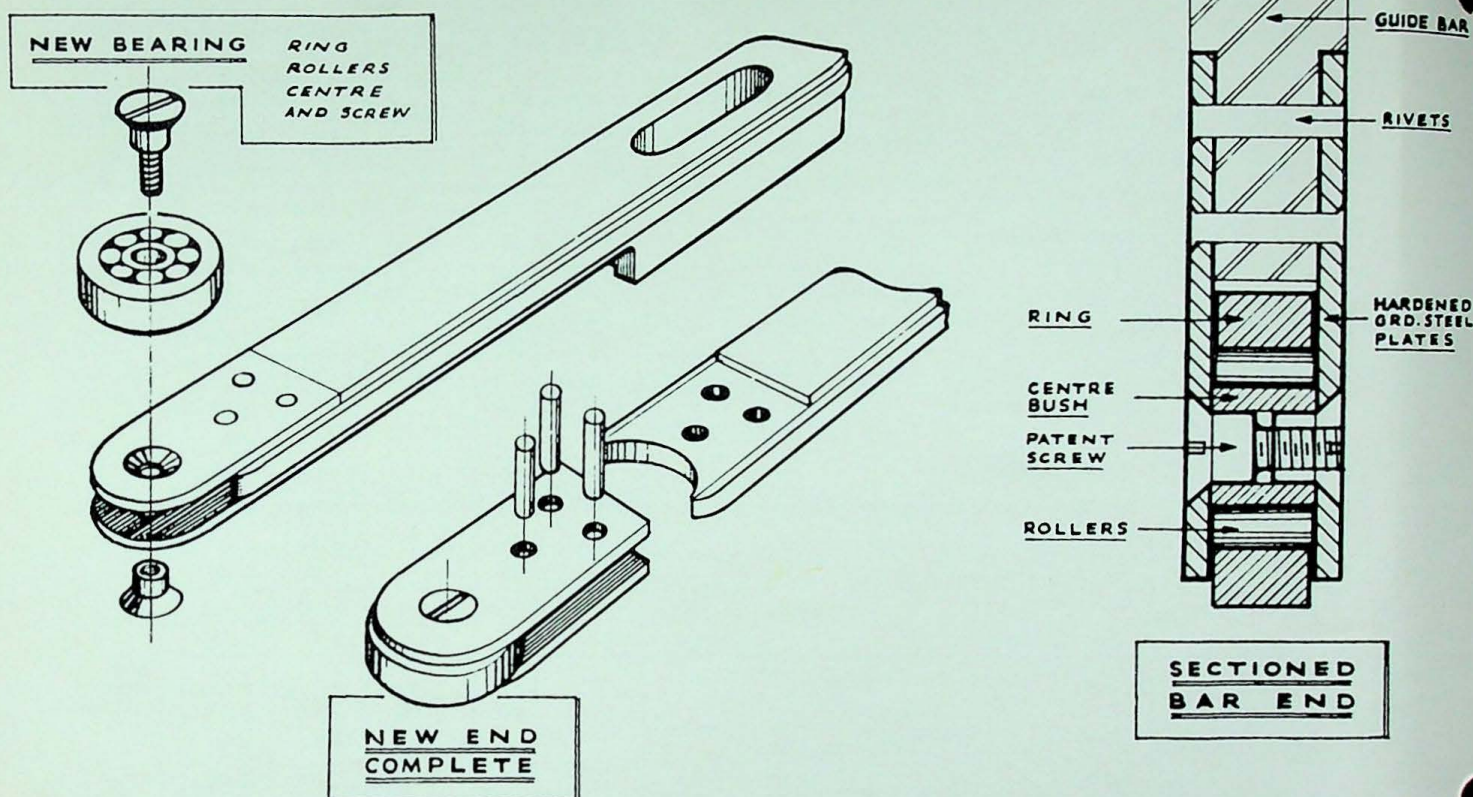
## .89 PITCH GUIDE BARS, CHAIN SPROCKETS AND REPAIRS

SIZE OF MORTISE			GUIDE BAR	.89 Pitch CHAIN				SPROCKET All ¾" Bore		Bearing Complete Roller Bushing Screw	Bar End with Bearing	Price Three Loose Pitches Repairs	Patent Screws Each
Width	Length	Depth	Price Each	Length in Pitches				No. Teeth	Price Each				
				32	34	36	38						
¼"	1½"	4½"	32.50	27.00				4	4.00	5.50	8.50	4.00	All Sizes thru 1½"
	1⅝"	4½"	35.00	27.00				4	4.00	6.00	9.50	4.00	
	1¾"	4½"	33.00		29.00			5	5.00	6.60	9.50	4.00	
	2"	4½"	34.00		29.00			5	5.00	6.75	10.25	4.00	
	2¼"	4½"	36.00			31.00		6	6.00	7.50	10.75	4.00	
	2½"	4½"	38.00			31.00	33.00	7	7.00	7.50	11.25	4.00	
5/16" or ⅜"	1½"	4½"	33.50	29.00				4	4.00	5.50	8.50	4.00	.60c Each Houston Stock
	1⅝"	4½"	34.50	29.00				5	5.00	6.00	9.75	4.00	
	1¾"	5"	36.00	29.00				5	5.00	6.00	9.75	4.00	
	2"	5"	37.00		31.00			6	6.00	6.75	10.50	4.00	
	2¼"	5"	38.00		31.00			7	7.00	6.75	10.50	4.00	
	2½"	5"	39.00			33.00		7	7.00	6.75	11.00	4.00	
	2¾"	5"	40.00			33.00		8	9.00	8.00	12.00	4.00	
	3"	5"	40.00				35.00	8	9.00	8.00	12.50	4.00	
7/16"	1½"	5"	34.50	32.00				4	4.00	5.00	8.50	4.00	
	1¾"	5"	35.50		34.00			5	5.00	6.00	9.75	4.00	
	2"	5"	37.00		34.00			5	5.00	6.75	10.50	4.00	
	2¼"	5"	40.00			36.00		6	6.00	6.75	10.50	4.00	
	2½"	5"	43.00			36.00	38.00	7	7.50	7.50	11.00	4.00	
½" or 9/16"	1½"	5"	35.50	34.00				4	4.00	5.00	8.50	4.25	
	1⅝"	5"	37.00	34.00				4	4.00	5.00	9.75	4.25	
	1¾"	5½"	37.50		36.50			5	5.00	6.00	9.75	4.25	
	2"	5½"	38.50		36.50			5	5.00	7.00	10.50	4.25	
	2¼"	5½"	39.50			37.50		6	6.00	7.50	11.00	4.25	
	2½"	5½"	40.50			37.50		7	7.00	7.50	11.50	4.25	
	3"	5½"	44.00				41.00	8	9.00	8.75	12.50	4.25	
⅝"	1½"	5½"	36.00	37.00				4	4.00	6.00	9.00	4.75	All Sizes thru 1¼"
	1¾"	5½"	37.00	37.00				5	5.00	7.00	10.50	4.75	
	2"	5½"	39.50		39.00			5	5.00	7.00	10.50	4.75	
	2¼"	5½"	40.50		39.00			6	6.00	7.50	11.25	4.75	
	2½"	5½"	42.50			42.00		7	7.00	7.50	11.50	4.75	
	3"	5½"	46.50				45.00	8	9.00	8.75	12.50	4.75	
¾"	1½"	6"	38.00	40.00	42.50			4	4.00	6.00	9.25	6.50	.75c Each Houston Stock
	1¾"	6"	39.50		42.50			5	5.00	7.00	10.75	6.50	
	2"	6"	40.50		42.50			5	5.00	7.00	10.75	6.50	
	2¼"	6"	41.50			44.50		6	6.00	7.50	11.00	6.50	
	2½"	6"	43.50			44.50	47.00	7	7.00	7.50	11.25	6.50	
7/8"	2¼"	6"	43.00			51.00		6	6.00	8.00	12.00	7.00	
	2½"	6"	44.00			51.00		7	7.00	8.50	12.50	7.00	
	2¾"	6"	48.00				53.00	8	9.00	9.00	13.00	7.00	
	3"	6"	52.00				53.00	8	9.00	9.50	13.50	7.00	
1"	2"	6"	44.00		58.00			5	5.00	8.00	11.50	7.25	
	2½"	6"	46.00			60.00		7	7.00	8.50	12.50	7.25	
	3"	6"	54.00				64.00	8	9.00	9.50	13.50	7.25	
1⅛" or 1¼"	2½"	6"	45.00			68.00		7	7.00	8.50	12.50	9.00	
	2½"	6"	45.00			68.00	72.00	7	7.00	8.50	12.50	9.00	

**ITEMS NOT IN STOCK OR SPECIAL ORDER RECEIVED IN 3-4 WEEKS BY AIR MAIL**



## for MORTISE GUIDE BARS



**EXCLUSIVE** design illustrated above.

The guide bar end is ground to a dead thickness to allow running clearance of the rollers and ring only.

### PLATES

No screw threads in plate or bar. The plates are hardened steel ground dead flat, and are riveted firmly to the guide bar. By this method of assembly, the bar end and plates being ground, it will be seen that all inaccuracy is eliminated.

### BEARINGS

The bearing comprises outer ring, rollers and center race, all hardened ground steel. The fixed center race allowing for a running clearance of the outer ring. Always sold with patent screw.

### SCREW

As the illustration shows, the screw locates and secures the whole bearing firmly and strongly in position.

It will be seen that by the removing of the one screw only, the whole bearing can be withdrawn, and a new one fitted instantly by the replacement of the screw, no fitting or skill being required as all bearings are interchangeable.

The great advantage of this design is readily apparent by comparison with other types. A complete bar end can be supplied comprising an assembled bearing, screw plates and rivets ready for riveting to existing bar. This will give you equivalent service to new guide bar at less than 1/3 the cost. The labor to install easily done in your own shop.



***MACHINE  
and DOWEL  
BITS***





**NO. 101 DOUBLE TWIST MACHINE BITS**

Sizes 3/4 In. dia. and smaller have Extension Lip. 13/16 In. and larger have Double Cut. (See page 4)

**4 In. Length of Twist**

1/2x2 In. Shank		NET PRICE EACH TOOL		
Size	Tools per Unit	1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1/4	12	\$2.40	\$2.25	\$2.10
5/16	12	2.40	2.25	2.10
3/8	12	2.40	2.25	2.10
7/16	12	2.40	2.25	2.10
1/2	12	2.45	2.30	2.15
9/16	10	2.50	2.35	2.20
5/8	10	2.60	2.45	2.30
11/16	10	2.65	2.50	2.35
3/4	10	2.70	2.55	2.40
13/16	8	2.95	2.80	2.65
7/8	8	3.10	2.95	2.80
15/16	8	3.30	3.15	3.00
1	8	3.55	3.40	3.25

**6 In. Length of Twist**

1/2x2 In. Shank		NET PRICE EACH TOOL		
Size	Tools per Unit	1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
5/16	12	\$ 2.45	\$ 2.25	\$ 2.15
3/8	12	2.45	2.25	2.15
7/16	12	2.45	2.25	2.15
1/2	12	2.60	2.35	2.20
9/16	12	2.65	2.45	2.25
5/8	12	2.70	2.50	2.30
11/16	12	2.75	2.50	2.30
3/4	12	2.80	2.60	2.40
13/16	10	3.00	2.75	2.50
7/8	10	3.20	2.90	2.65
15/16	10	3.45	3.10	2.85
1	10	3.60	3.30	3.00
1-1/16	8	3.80	3.50	3.20
1-1/8	8	4.10	3.70	3.35
1-3/16	8	4.30	3.90	3.60
1-1/4	8	4.55	4.05	3.70
1-5/16	8	4.70	4.35	4.00
1-3/8	8	4.95	4.70	4.50
1-1/2	8	5.40	5.05	4.80
1-5/8	6	5.95	5.45	5.00
1-3/4	6	6.50	5.95	5.45
1-7/8	6	7.00	6.50	6.00
*2	6	7.60	7.10	6.60
*2-1/4	6	11.00	9.90	8.80
*2-1/2	6	12.40	11.15	9.95
*2-3/4	6	15.50	13.75	12.00

\* 3/4 in. dia. shank

**8 In. Length of Twist**

1/2x2 In. Shank		NET PRICE EACH TOOL		
Size	Tools per Unit	1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
3/8	12	\$2.90	\$2.60	\$2.45
7/16	12	2.90	2.60	2.45
1/2	12	3.10	2.80	2.50
9/16	12	3.20	2.85	2.50
5/8	10	3.30	2.90	2.55
11/16	10	3.35	2.95	2.60
3/4	10	3.40	3.05	2.70
13/16	8	3.45	3.20	2.85
7/8	6	3.55	3.25	3.00
1	6	3.75	3.55	3.40

**12 In. Length of Twist**

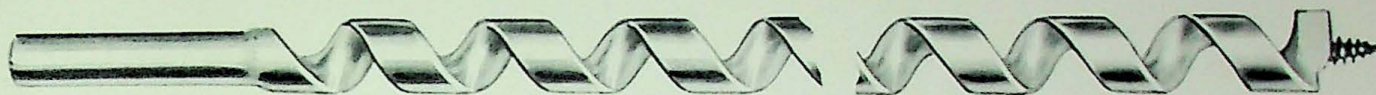
1/2 or 3/4x2 In. Shank		NET PRICE EACH TOOL		
Size	Tools per Unit	1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
3/8	12	\$ 3.90	\$ 3.50	\$ 3.20
7/16	12	3.90	3.50	3.20
1/2	12	4.00	3.55	3.25
9/16	12	4.20	3.75	3.35
5/8	10	4.30	3.85	3.45
11/16	10	4.35	3.90	3.50
3/4	10	4.50	4.05	3.60
13/16	8	4.65	4.15	3.75
7/8	6	4.80	4.35	4.00
15/16	6	5.10	4.70	4.30
1	6	5.40	4.85	4.55
1-1/8	4	6.00	5.40	5.10
1-1/4	3	6.60	6.10	5.60
1-3/8	3	7.60	7.10	6.60
1-1/2	3	8.00	7.50	7.00
1-3/4	3	9.80	9.30	8.80
2	3	11.50	11.00	10.50

**14 In. Length of Twist**

1/2 or 3/4x2 In. Shank		NET PRICE EACH TOOL		
Size	Tools per Unit	1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1/2	3	\$ 5.20	\$ 4.20	\$ 3.55
9/16	3	5.25	4.30	3.65
5/8	3	5.37	4.35	3.90
11/16	2	5.47	4.35	3.85
3/4	2	5.50	5.00	4.50
13/16	2	5.90	5.20	4.30
7/8	2	6.30	5.90	5.50
1	2	7.15	6.20	5.50

Sizes Not Shown—Price on Request





## NO. 301 SHIP AUGER MACHINE BITS

 $\frac{1}{2}$  x 2 In. shank

12 In. Length of Twist

18 In. Length of Twist

NET PRICE EACH TOOL					NET PRICE EACH TOOL				
Size	Tools per Unit	1 pc. thru 3 Units	4 thru 6 Units	7 or more Units	Size	Tools per Unit	1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
$\frac{3}{8}$	10	\$ 3.20	\$ 2.80	\$ 2.40	$\frac{9}{16}$	8	\$ 4.60	\$ 4.20	\$ 3.80
$\frac{7}{16}$	10	3.30	2.90	2.50	$\frac{5}{8}$	8	4.70	4.30	3.90
$\frac{1}{2}$	10	3.35	2.95	2.55	$\frac{11}{16}$	8	4.85	4.45	4.05
$\frac{9}{16}$	8	3.40	3.00	2.60	$\frac{3}{4}$	8	5.00	4.60	4.20
$\frac{5}{8}$	8	3.50	3.10	2.70	$\frac{13}{16}$	6	5.35	4.95	4.55
$\frac{11}{16}$	8	3.55	3.15	2.75	$\frac{7}{8}$	6	5.75	5.35	4.95
$\frac{3}{4}$	8	3.60	3.20	2.80	$\frac{15}{16}$	6	6.10	5.70	5.30
$\frac{13}{16}$	6	3.70	3.30	2.90	1	6	6.50	6.10	5.70
$\frac{7}{8}$	6	4.00	3.60	3.20					
$\frac{15}{16}$	6	4.30	3.90	3.50					
1	6	4.50	4.10	3.70					

24 In. Length of Twist

For  
Deep Boring,  
Construction,  
Bridge Work,  
Etc.

NET PRICE EACH TOOL				
Size	Tools per Unit	1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
$\frac{9}{16}$	8	\$5.85	\$5.45	\$5.05
$\frac{5}{8}$	8	6.00	5.60	5.20
$\frac{11}{16}$	8	6.15	5.75	5.35
$\frac{3}{4}$	8	6.30	5.90	5.50
$\frac{13}{16}$	6	6.80	6.40	6.00
$\frac{7}{8}$	6	7.30	6.90	6.50
$\frac{15}{16}$	6	7.80	7.40	7.00
1	6	8.25	7.85	7.45

Other Sizes  
and Lengths  
Quoted  
on Request



## NO. 103 BLIND STYLE BITS

 $\frac{1}{2}$  x 2 shank  
4 Inches Overall

NET PRICE EACH TOOL				
Size	Tools per Unit	1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
$\frac{3}{8}$	12	\$2.40	\$2.05	\$1.85
$\frac{7}{16}$	12	2.50	2.15	1.90
$\frac{1}{2}$	12	2.60	2.20	2.00



## NO. 104 RELISHING BITS

 $2\frac{1}{4}$  In. Twist  $5\frac{1}{4}$  In. Overall  
 $\frac{1}{2}$  In. dia. shank

NET PRICE EACH TOOL				
Size	Tools per Unit	1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
$\frac{3}{8}$	12	\$2.40	\$2.05	\$1.85
$\frac{7}{16}$	12	2.50	2.15	1.90
$\frac{1}{2}$	12	2.60	2.20	2.00
$\frac{5}{8}$	6	2.70	2.30	2.10
$\frac{3}{4}$	6	2.80	2.40	2.20





### NO. 107 BRAD POINT MACHINE BITS

Use No. 101 List plus 10%



### NO. 110 SCREW SHANK DOWEL BITS

7/16 No. 14 thread

Extension Lip for Clean Boring (see cut below)

4 1/2 In. Overall

		NET PRICE EACH TOOL		
Size	Tools per Unit	1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
* 1/4	12	\$2.20	\$2.05	\$1.95
5/16	12	2.30	2.15	2.05
* 3/8	12	2.30	2.15	2.05
* 25/64	12	2.50	2.35	2.25
* 7/16	12	2.35	2.20	2.10
* 29/64	12	2.60	2.45	2.35
* 1/2	12	2.40	2.25	2.15
5/8	12	2.80	2.65	2.50
3/4	12	2.90	2.75	2.60

\* also in 3-1/2" overall length



### NO. 109 ACME CUT DOWEL BITS

7/16 No. 14 thread

acme cut for end grain boring (see cut below)

4-1/2 In. Overall

		NET PRICE EACH TOOL		
Size	Tools per Unit	1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
* 3/8	12	\$2.45	\$2.30	\$2.20
25/64	12	2.60	2.45	2.35
* 7/16	12	2.45	2.30	2.20
29/64	12	2.70	2.55	2.45

\* also in 3-1/2" overall length

### NO. 111 SCREW SHANK DOWEL BITS

5/16 No. 20 thread

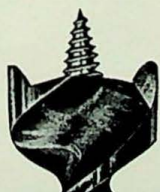
Identical to No. 110 Bit except for size of threaded shank

4-1/2 Overall

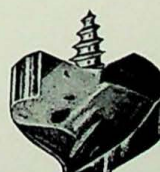
		NET PRICE EACH TOOL		
Size	Tools per Unit	1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
3/8	12	\$2.50	\$2.35	\$2.25
7/16	12	2.50	2.35	2.25



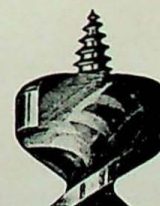
Double Spur



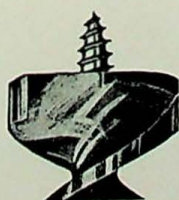
Extension Lip



Acme Cut



Round Cut



Hub Flat Cut



Brad Point



Ship Auger



No Screw



# **COUNTERSINKS *and* COUNTERBORES**





**NO. 122 ADJUSTABLE COUNTERSINK**

Carbon Steel

also furnished with Bevel Cut

**NO. X 122 ADJUSTABLE COUNTERSINK**

High Speed Steel

(Drills Not Included in Price)

Size	Tools per Unit	NET PRICE EACH TOOL					
		1 pc. thru 3 Units		4 thru 6 Units		7 or more Units	
		Carbon	H. S. S.	Carbon	H. S. S.	Carbon	H. S. S.
$\frac{3}{8} \times \frac{3}{16}$	12	\$4.60	\$6.60	\$4.30	\$6.30	\$4.15	\$6.10
$\frac{1}{2} \times \frac{5}{32}$	12	4.60	6.60	4.30	6.30	4.15	6.10
$\frac{1}{2} \times \frac{3}{16}$	12	4.60	6.60	4.30	6.30	4.15	6.10
$\frac{1}{2} \times \frac{7}{32}$	12	4.60	6.60	4.30	6.30	4.15	6.10
$\frac{1}{2} \times \frac{1}{4}$	12	4.60		4.30		4.15	
$\frac{5}{8} \times \frac{3}{16}$	8	5.20		4.90		4.75	
$\frac{5}{8} \times \frac{1}{4}$	8	5.20		4.90		4.75	
$\frac{3}{4} \times \frac{1}{4}$	6	6.40		6.10		5.95	
$\frac{7}{8} \times \frac{1}{4}$	6	7.25		6.95		6.80	
1 $\times \frac{1}{4}$	4	8.10		7.80		7.65	
1- $\frac{1}{8} \times \frac{1}{4}$	3	9.00		8.70		8.55	
1- $\frac{1}{4} \times \frac{1}{4}$	3	9.85		9.55		9.40	
1- $\frac{1}{2} \times \frac{1}{4}$	2	11.25		10.95		10.80	

**NO. 121 SCREW SHANK ADJUSTABLE COUNTERSINK**

7/16 No. 14 or 5/16 No. 18 Threaded Shank, R or L Hand Twist

**NO. X 121 SCREW SHANK ADJUSTABLE COUNTERSINK**

Also furnished with Bevel Cut

(Drills Not Included in Price)

Size	Tools per Unit	NET PRICE EACH TOOL					
		1 pc. thru 3 Units		4 thru 6 Units		7 or more Units	
		Carbon	H. S. S.	Carbon	H. S. S.	Carbon	H. S. S.
$\frac{3}{8} \times \frac{5}{32}$	6	\$5.15	\$	\$4.90	\$	\$4.60	\$
$\frac{1}{2} \times \frac{5}{32}$	6	5.15	6.80	4.90	6.55	4.60	6.35
$\frac{1}{2} \times \frac{3}{16}$	6	5.15	6.80	4.90	6.55	4.60	6.35
$\frac{1}{2} \times \frac{7}{32}$	6	5.15	6.80	4.90	6.55	4.60	6.35
$\frac{5}{8} \times \frac{3}{16}$	4	5.80	7.70	5.55	7.45	5.25	7.25





### NO. 124 ADJUSTABLE COUNTERSINK

1/2 In. Split Shank with Set Screw  
3 In. Overall Length

(Drills Not Included in Price)

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or More Units
1/2 x 1/8	6	\$3.30	\$3.00	\$2.75
1/2 x 3/16	6	3.30	3.00	2.75
1/2 x 5/32	6	3.30	3.00	2.75
1/2 x 11/64	6	3.30	3.00	2.75
1/2 x 3/8	6	3.30	3.00	2.75
1/2 x 13/64	6	3.30	3.00	2.75
1/2 x 7/32	6	3.30	3.00	2.75
1/2 x 15/64	6	3.30	3.00	2.75
1/2 x 1/4	6	3.30	3.00	2.75
5/8 x 5/16	6	3.80	3.50	3.30
3/4 x 3/8	6	4.65	4.35	4.10



### NO. 120 MULTI SPUR COUNTERSINK

All Sizes have 1/2 In. dia. hole  
(Drills Not Included in Price)

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or More Units
1-1/8	4	\$ 6.10	\$ 5.80	\$ 5.60
1-1/4	4	6.40	6.10	5.90
1-3/8	4	6.85	6.55	6.35
1-1/2	4	7.50	7.20	7.00
1-5/8	4	8.00	7.70	7.50
1-3/4	4	8.60	8.30	8.20
1-7/8	4	9.00	8.70	8.50
2	3	9.30	9.00	8.80
2-1/8	3	9.60	9.30	9.10
2-1/4	3	10.20	9.90	9.70
2-1/2	3	11.75	11.45	11.25



### NO. 123 ADJUSTABLE COUNTERSINK

Can be furnished on the shank or twist of a drill  
(Drills Not Included in Price)

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or More Units
1/2 x 3/16	12	\$2.10	\$1.60	\$1.30
1/2 x 7/32	12	2.10	1.60	1.30
1/2 x 1/4	12	2.10	1.60	1.30
3/4 x 5/16	6	4.10	3.90	3.70
7/8 x 3/8	6	5.30	5.10	4.90
1 x 7/8	5	6.40	6.20	6.00
1 x 3/8	5	6.40	6.20	6.00
1 x 1/2	5	6.40	6.20	6.00
1-1/4 x 3/8	4	6.85	6.65	6.45
1-1/4 x 1/2	4	6.85	6.65	6.45
1-1/2 x 1/2	4	7.40	7.20	7.00
1-5/8 x 1/2	3	7.90	7.70	7.50
1-3/4 x 1/2	3	8.50	8.30	8.10
2 x 1/2	3	9.50	9.30	9.10



### NO. 125 ADJUSTABLE COUNTERSINK CUTTERS

1 1/2 In. Overall Length  
(Drills Not Included in Price)

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or More Units
1/2 x 5/32	4	\$2.00	\$1.50	\$1.25
1/2 x 3/16	4	2.00	1.50	1.25
1/2 x 7/32	4	2.00	1.50	1.25
1/2 x 1/4	4	2.00	1.50	1.25



### NO. 126 ADJUSTABLE COUNTERSINKS

3 In. Overall 1/2 shank  
Split Shank & Set Screw  
(Drills Not Included in Price)

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or More Units
1/2 x 3/16	12	\$4.00	\$3.70	\$3.45
1/2 x 7/32	12	4.00	3.70	3.45





### NO. 117 SOLID COUNTERSINKS BEVEL CUT

Large Dia. 2 In. Long, Small Dia. 1-1/2 In. Long  
1/2 x 2 shank

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or More Units
1/2 x 3/16	6	\$4.40	\$4.25	\$4.10
1/2 x 7/32	6	4.40	4.25	4.10
1/2 x 1/4	6	4.40	4.25	4.10



### NO. 118 SOLID COUNTERSINKS SPUR CUT

Large Dia. 2 In. Long, Small Dia. 1-1/2 In. Long  
1/2 x 2 shank

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or More Units
1/2 x 3/16	6	\$4.95	\$4.70	\$4.55
1/2 x 7/32	6	4.95	4.70	4.55
1/2 x 1/4	6	4.95	4.70	4.55



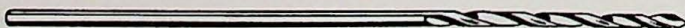
### NO. 122-B BRAD POINT CENTER DRILLS

6 In. Overall Carbon Steel  
Shank Same Dia. as Twist

### NO. X 122-B BRAD POINT CENTER DRILLS

6 In. Overall Length High Speed Steel

Size	Tools per Unit	NET PRICE EACH TOOL					
		1 pc. thru 3 Units		4 thru 6 Units		7 or more Units	
		Carbon	H. S. S.	Carbon	H. S. S.	Carbon	H. S. S.
5/32	12	\$1.20	\$	\$1.15	\$	\$1.10	\$
3/16	12	1.20	1.25	1.15	1.20	1.10	1.15
7/32	12	1.20	1.25	1.15	1.20	1.10	1.15
1/4	12	1.20	1.25	1.15	1.20	1.10	1.15
19/64	12	1.50		1.35		1.15	
5/16	12	1.50		1.35		1.15	



### NO. 122-D CENTER DRILLS

6 In. Overall Length Carbon Steel

### NO. X 122-D CENTER DRILLS

6 In. Overall High Speed Steel

Shank Same Dia. as Twist

Size	Tools per Unit	NET PRICE EACH TOOL					
		1 pc. thru 3 Units		4 thru 6 Units		7 or more Units	
		Carbon	H. S. S.	Carbon	H. S. S.	Carbon	H. S. S.
1/8	24	\$ .75	\$	\$ .70	\$	\$ .67	\$
5/32	24	.75		.70		.67	
3/16	24	.80	.85	.75	.80	.72	.77
7/32	24	.80	.85	.75	.80	.72	.77
1/4	24	.80	.85	.75	.80	.72	.77
9/32	20	.85		.80		.77	
5/16	20	.90		.85		.83	
19/64	20	1.00		.90		.87	
3/8	15	1.05		1.00	1.05	.97	





### NO. 124-B BRAD POINT CENTER DRILLS - 4½ Overall

### NO. X124-B CENTER DRILLS - High Speed Steel

Size	Tools per Unit	NET PRICE EACH TOOL					
		1 pc. thru 3 Units		4 thru 6 Units		7 or more Units	
		Carbon	H. S. S.	Carbon	H. S. S.	Carbon	H. S. S.
⅛	24	\$1.15	\$	\$1.10	\$	\$1.05	\$
⅝ <sub>32</sub>	24	1.15		1.10		1.05	
⅜ <sub>16</sub>	24	1.15	1.20	1.10	1.15	1.05	1.10
⅞ <sub>32</sub>	24	1.15	1.20	1.10	1.15	1.05	1.10
¼	24	1.15	1.20	1.10	1.15	1.05	1.10



### NO. 124-D CENTER DRILLS

For use in No. 121, No. 124, No. 126, No. 125, No. 123

Adjustable Countersink

Overall Length 4-½ Carbon Steel

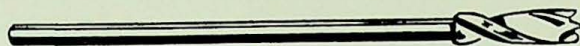
Shank Same Dia. as Twist

### NO. X 124-D CENTER DRILLS

High Speed Steel

Size	Tools per Unit	NET PRICE EACH TOOL					
		1 pc. thru 3 Units		4 thru 6 Units		7 or more Units	
		Carbon	H. S. S.	Carbon	H. S. S.	Carbon	H. S. S.
⅛	24	\$ .70	\$	\$ .65	\$	\$.62	\$
⅞ <sub>64</sub>	24	.70		.65		.62	
⅝ <sub>32</sub>	24	.70		.65		.62	
1⅞ <sub>64</sub>	24	.75		.70		.67	
⅜ <sub>16</sub>	24	.75	.80	.70	.75	.67	.72
1⅜ <sub>64</sub>	24	.75		.70		.67	
⅞ <sub>32</sub>	24	.75	.80	.70	.75	.67	.72
1⅝ <sub>64</sub>	24	.75		.70		.67	
¼	24	.75	.80	.70	.75	.67	.72
⅝ <sub>16</sub>	20	.85		.80		.76	
⅜	15	.95		.90		.87	



**NO. 121-B CENTER DRILLS**

for No. 121 adjustable countersink

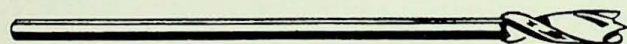
1-1/2 In. Twist, 5-1/2 In. Overall

**NO. X 121-B CENTER DRILLS**

High Speed Steel

Size	Tools per Unit	NET PRICE EACH TOOL					
		1 pc. thru 3 Units		4 thru 6 Units		7 or more Units	
		Carbon	H. S. S.	Carbon	H. S. S.	Carbon	H. S. S.
*3/16 W / 5/32 sk.	12	\$1.25	\$1.30	\$1.15	\$1.20	\$1.10	\$1.15
*7/32 W / 5/32 sk.	12	1.25	1.30	1.15	1.20	1.10	1.15
*1/4 W / 3/16 sk.	12	1.25	1.30	1.15	1.20	1.10	1.15

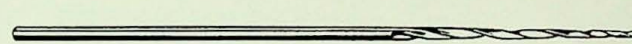
For Left Hand Twist plus \$.20 each to above prices in Carbon Steel - \$.45 in High Speed Steel.

**NO. 122-C CENTER DRILLS**

6 In. Overall

For use in No. 122 Adjustable Countersink

Drill Size	Size	Sk.	Tools per Unit	NET PRICE EACH TOOL		
				1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
11/64	5/32	12		\$1.25	\$1.15	\$1.10
3/16	5/32	12		1.25	1.15	1.10
13/64	5/32	12		1.25	1.15	1.10
7/32	5/32	12		1.25	1.15	1.10
15/64	3/16	12		1.30	1.20	1.15
1/4	3/16	12		1.30	1.20	1.15
5/16	1/4	10		1.50	1.40	1.35
11/32	1/4	10		1.50	1.40	1.35
3/8	1/4	10		1.50	1.40	1.35
7/16	1/4	10		1.50	1.40	1.35
1/2	1/4	10		1.50	1.40	1.35

**NO. 122-T STRAIGHT SHANK TAPER POINT DRILLS**2-1/2 In. Twist, 6 In. Overall Carbon Steel  
tapered to fit Screw

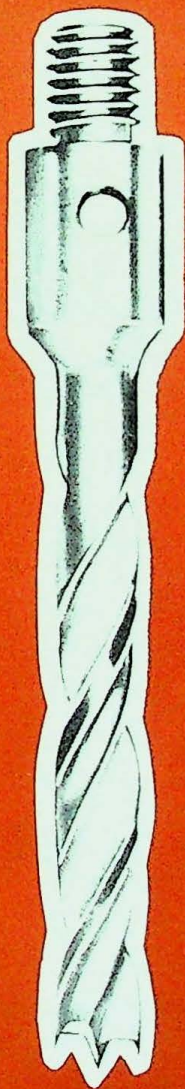
Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
3/16	24	\$1.13	\$1.08	\$1.05
13/64	24	1.13	1.08	1.05
7/32	24	1.13	1.08	1.05
15/64	24	1.13	1.08	1.05
1/4	24	1.13	1.08	1.05
17/64	24	1.23	1.18	1.15
9/32	24	1.27	1.22	1.19
5/16	24	1.33	1.28	1.25

**No. 124-T Straight Shank Taper-Point Drills**2 In. Twist, 4-1/2 In. Overall Carbon Steel  
tapered to fit Screw

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
3/16	24	\$1.00	\$ .95	\$ .92
13/64	24	1.00	.95	.92
7/32	24	1.00	.95	.92
15/64	24	1.00	.95	.92
1/4	24	1.00	.95	.92
17/64	24	1.10	1.05	1.02
9/32	24	1.13	1.08	1.05
5/16	24	1.20	1.15	1.12



# *MACHINE and DOWEL DRILLS*

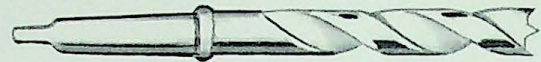




**NO. 200 BRAD POINT DRILLS**

Carbon Steel  
1/2 x 2 shank

Size	Twist Length	Tools per Unit	NET PRICE EACH TOOL		
			1 pc. thru 3 Units	4 thru 6 Units	7 or More Units
3/16 x 3	6	\$1.77	\$1.70	\$1.65	
7/32 x 3 or 4	6	1.77	1.70	1.65	
1/4 x 3 or 4	6	1.77	1.70	1.65	
9/32 x 3 or 4	6	1.80	1.73	1.68	
5/16 x 3 or 4	6	1.80	1.73	1.68	
11/32 x 3 or 4	6	1.83	1.76	1.71	
3/8 x 3 or 4	6	1.83	1.76	1.71	
13/32 x 3 or 4	6	1.87	1.80	1.75	
7/16 x 3 or 4	6	1.87	1.80	1.75	
15/32 x 4	6	1.93	1.86	1.81	
1/2 x 3 or 4	6	2.00	1.90	1.85	
17/32 x 4	5	2.30	2.20	2.15	
9/16 x 4	5	2.30	2.20	2.15	
5/8 x 3 or 4	5	2.63	2.53	2.48	
11/16 x 4	4	2.93	2.83	2.78	
3/4 x 4	4	3.33	3.23	3.18	
13/16 x 4	4	3.70	3.60	3.55	
7/8 x 4	3	4.10	3.90	3.85	
15/16 x 4	3	4.53	4.43	4.38	
1 x 4	2	5.03	4.93	4.88	
1-1/4 x 4	1	6.00	5.90	5.85	
1-1/2 x 4	1	7.00	6.90	6.85	

**NO. 200-M TAPER SHANK DRILLS**

Shank Tapered to fit McKnight Boring Machine  
Brad Point furnished unless otherwise specified

4-3/4 Overall

Right & Left Hand

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or More Units
3/8	4	\$2.85	\$2.65	\$2.50
7/16	4	2.95	2.75	2.60
1/2	4	3.00	2.80	2.65

**NO. 204 DOWEL DRILLS**

Carbon Steel

4-1/2 Overall

7/16 No. 14 or 5/16 No. 18 Thd.

Right or Left Hand

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or More Units
1/4	6	\$2.20	\$2.05	\$1.85
5/16	6	2.25	2.10	1.90
3/8	6	2.30	2.15	1.95
7/16	6	2.50	2.35	2.15
1/2	6	2.60	2.45	2.25

**NO. X 200 BRAD POINT DRILLS**

High Speed Steel  
1/2 x 2 shank 6 In. Overall Length

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or More Units
1/4 x 4	6	\$2.60	\$2.45	\$2.30
5/16 x 4	6	2.70	2.55	2.40
3/8 x 4	6	2.75	2.60	2.45
7/16 x 4	6	2.85	2.70	2.55
1/2 x 4	6	4.00 3.00	2.85	2.70
9/16 x 4	6	4.55	4.40	4.25
5/8 x 4	6	5.10	4.95	4.80
11/16 x 4	6	5.65	5.50	5.35
3/4 x 4	6	6.20	6.05	5.90
13/16 x 4	6	6.80	6.65	6.50
7/8 x 4	6	7.35	7.20	7.05
15/16 x 4	6	8.15	8.00	7.85
1 x 6	6	9.55	9.40	9.25

**NO. X204 DOWEL DRILLS**

High Speed Steel

7/16 No. 14 or 5/16 No. 18 Thd.

4-1/2 Overall

Right or Left Hand

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or More Units
1/4	6	\$4.00	\$3.75	\$3.50
3/8	6	4.10	3.85	3.60
7/16	6	4.15	3.90	3.65



**NO. X203-J DOWEL DRILLS**

High Speed Steel  
2-1/2 In. Overall  
7/16 No. 14 or 5/16 No. 20 Thd.  
Right or Left Hand

* Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or More Units
1/4	6	\$3.50	\$3.20	\$3.00
3/8	6	3.50	3.20	3.00
7/16	6	3.50	3.20	3.00

\*Other sizes available - Price on request

**NO. X205 DOWEL DRILLS**

High Speed Steel  
Designed Especially for the Bell 24  
3-1/2 Overall  
7/16 No. 14 Thd.

* Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or More Units
3/8	6	\$4.05	\$3.80	\$3.55
7/16	6	4.10	3.85	3.60

\*Other Sizes available - Price on request

**NO. 203 DOWEL DRILLS**

Carbon Steel  
7/16 No. 14 or 5/16 No. 18 Thd.  
4-1/2 Overall  
Right or Left Hand

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or More Units
* 3/16	6	\$2.20	\$2.05	\$1.90
* 1/4	6	2.25	2.10	1.95
* 5/16	6	2.30	2.15	2.00
* 3/8	6	2.40	2.25	2.10
* 25/64	6	2.60	2.50	2.40
* 7/16	6	2.50	2.35	2.20
29/64	5	2.75	2.65	2.55
1/2	5	2.65	2.50	2.35
9/16	3	3.00	2.85	2.70
5/8	3	3.30	3.15	3.00
3/4	3	3.90	3.75	3.60

\*Also furnished 3-1/2 Overall for additional rigidity

**NO. X203 DOWEL DRILLS**

High Speed Steel  
7/16 No. 14 or 5/16 No. 18 Thd.  
3-1/2 or 4-1/2 Overall  
Right or Left Hand

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or More Units
1/4	6	\$4.05	\$3.80	\$3.55
5/16	6	4.10	3.85	3.60
3/8	6	4.15	3.90	3.65
7/16	6	4.20	3.95	3.70

Please specify overall length when ordering  
Other sizes available - price on request





## NO. 201 TAPER HEAD DRILLS

4 In. Twist  
1/2 x 2 shank  
Carbon Steel

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or More Units
1/4 x 4	6	\$1.60	\$1.50	\$1.40
5/32 x 4	6	1.65	1.55	1.45
3/16 x 4	6	1.70	1.60	1.50
11/32 x 4	6	1.75	1.65	1.55
3/8 x 4	6	1.75	1.65	1.55
13/32 x 4	6	1.75	1.65	1.55
7/16 x 4	6	1.75	1.65	1.55
1/2 x 4	6	1.85	1.75	1.65
5/8 x 4	5	2.50	2.40	2.30
3/4 x 4	4	3.10	3.00	2.90

## NO. 201 TAPER HEAD DRILLS

8 In. Twist  
1/2 x 2 shank  
Carbon Steel

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or More Units
3/8	6	\$2.50	\$2.35	\$2.20
7/16	6	2.60	2.45	2.30
1/2	6	2.70	2.55	2.40
9/16	6	3.00	2.85	2.70
5/8	4	3.40	3.25	3.10
11/16	4	3.80	3.65	3.50
3/4	4	4.25	4.10	3.95

## NO. 201 TAPER HEAD DRILLS

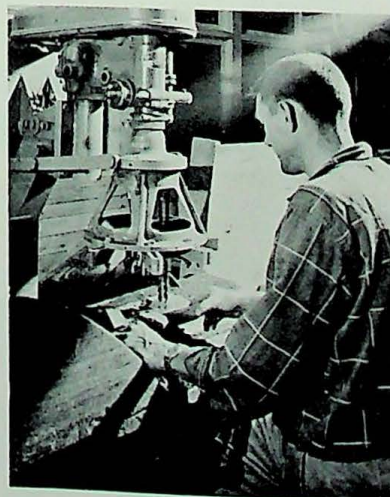
6 In. Twist  
1/2 x 2 shank  
Carbon Steel

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or More Units
3/8	6	\$2.00	\$1.85	\$1.70
7/16	6	2.15	2.00	1.85
1/2	6	2.30	2.15	2.00
9/16	6	2.60	2.45	2.30
5/8	4	2.90	2.75	2.60
3/4	4	3.60	3.45	3.25

## NO. 201 TAPER HEAD DRILLS

10 In. Twist  
1/2 x 2 shank  
Carbon Steel

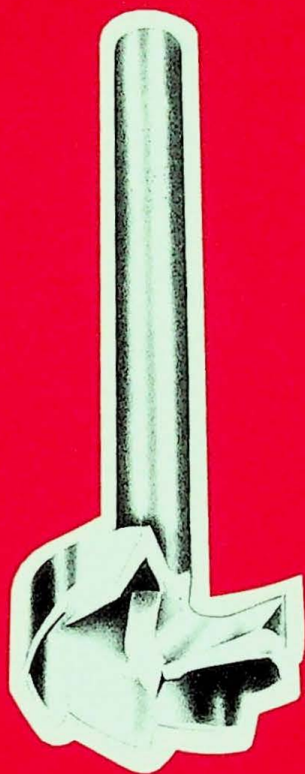
Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or More Units
1/2	6	\$3.10	\$2.95	\$2.80
9/16	6	3.40	3.25	3.10
5/8	6	3.85	3.70	3.55
11/16	6	4.30	4.15	4.00
3/4	6	4.80	4.65	4.50



PHOTOGRAPHS COURTESY  
DREXEL FURNITURE COMPANY

High Speed Steel drills being used by Drexel Furniture Company, Plant Number 5, Morganton, N. C.

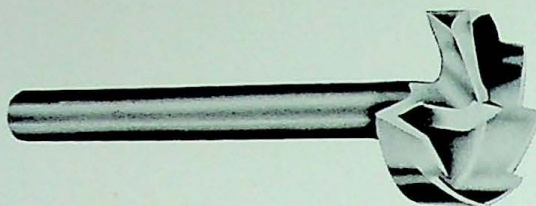




***SPECIAL  
PURPOSE  
TOOLS***





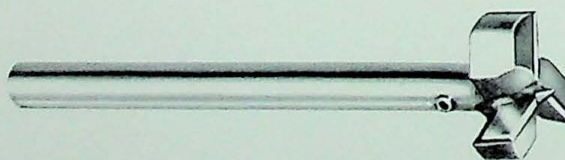


### NO. 810 MULTI SPUR BIT

Overall lengths range from 5-1/2 to 5-3/4 In.  
 Sizes 3-1/4 and larger have double cutters and  
 a 3/8 In. dia. inserted point 1/2 shank on 3 In.  
 dia. and smaller 3-1/4 and larger have  
 3/4 shanks

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1/2	6	\$3.30	\$3.15	\$3.00
9/16	6	3.30	3.15	3.00
5/8	6	3.30	3.15	3.00
11/16	6	3.30	3.15	3.00
3/4	6	3.30	3.15	3.00
13/16	6	3.30	3.15	3.00
7/8	6	3.30	3.15	3.00
15/16	6	3.40	3.25	3.10
1	6	3.40	3.25	3.10
1-1/16	6	3.50	3.35	3.20
1-1/8	6	3.50	3.35	3.20
1-3/16	6	3.60	3.45	3.30
1-1/4	6	3.75	3.60	3.45
1-5/16	4	3.95	3.80	3.65
1-3/8	4	4.10	3.95	3.80
1-7/16	4	4.65	4.50	4.35
1-1/2	4	5.20	5.05	4.90
1-9/16	4	5.35	5.20	5.05
1-5/8	3	5.50	5.35	5.20

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1-11/16	3	5.65	5.50	5.35
1-3/4	3	5.85	5.70	5.55
1-13/16	3	6.00	5.85	5.70
1-7/8	3	6.15	6.00	5.85
1-15/16	3	6.45	6.30	6.15
2	3	6.70	6.55	6.40
2-1/8	3	7.55	7.40	7.25
2-1/4	3	9.05	8.90	8.75
2-3/8	3	10.55	10.40	10.25
2-1/2	3	11.80	11.65	11.50
2-5/8	2	13.25	13.10	12.95
2-3/4	2	14.70	14.55	14.40
2-7/8	2	16.15	16.00	15.85
3	2	17.65	17.50	17.35
3-1/4	1	36.40	36.00	35.75
3-1/2	1	39.20	38.50	38.00
3-3/4	1	42.00	41.00	40.00
4	1	44.80	43.50	42.50



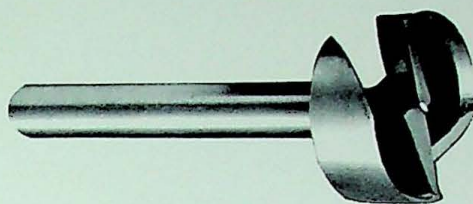
### NO. 812 THREE WING DRILLS

Carbide Tipped  
 For Plastic - Formica and Abrasive Materials  
 1/2 shank - 6 In. Overall

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1/2	3	\$15.00	\$13.50	\$11.25
9/16	3	15.50	14.00	11.75
5/8	3	16.00	14.50	12.25
11/16	3	16.50	15.00	12.75
3/4	3	17.00	15.50	13.25
13/16	3	17.50	16.00	13.75
7/8	3	18.00	16.50	14.25
1	3	19.00	17.50	15.25
1-1/8	2	20.00	18.50	16.25
1-1/4	2	22.50	21.00	18.75

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1-3/8	2	25.00	23.50	21.25
1-1/2	1	27.50	26.00	23.75
1-5/8	1	30.00	28.50	26.25
1-3/4	1	32.50	31.00	28.00
1-7/8	1	35.00	33.50	30.50
2	1	37.50	36.00	33.00
2-1/8	1	40.00	38.50	34.50
2-1/4	1	42.50	41.00	35.00
2-1/2	1	47.50	45.00	39.00



**NO. 809 FORSTNER BITS** $\frac{1}{2}$  shank

5 In. Overall Thru 1-3/8

6-3/4 In. Overall 1-7/16 Thru 2-1/8

10-1/2 In. Overall 2-1/4 and Over

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
5/16	6	\$3.00	\$2.90	\$2.80
3/8	6	3.10	3.00	2.90
7/16	6	3.15	3.05	2.95
1/2	6	3.20	3.10	3.00
9/16	6	3.30	3.20	3.10
5/8	6	3.40	3.30	3.20
11/16	6	3.45	3.35	3.25
3/4	6	3.50	3.40	3.30
13/16	6	3.60	3.50	3.40
7/8	6	3.70	3.60	3.50
15/16	6	3.80	3.70	3.60
1	6	4.10	3.95	3.80
1-1/16	6	4.25	4.10	3.95
1-1/8	6	4.35	4.20	4.05
1-3/16	6	4.60	4.45	4.30
1-1/4	6	4.90	4.75	4.60

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1-5/16	4	5.20	5.05	4.90
1-3/8	4	5.50	5.35	5.20
1-7/16	4	5.75	5.60	5.45
1-1/2	4	6.20	6.05	5.90
1-5/8	4	6.65	6.50	6.35
1-3/4	3	7.15	7.00	6.80
1-7/8	3	7.60	7.45	7.30
2	3	8.05	7.90	7.75
2-1/8	3	10.05	9.90	9.75
2-1/4	3	12.05	11.90	11.75
2-3/8	3	14.00	13.85	13.70
2-1/2	3	15.95	15.75	15.55
2-5/8	2	17.90	17.70	17.50
2-3/4	2	19.85	19.65	19.45
2-7/8	2	21.85	21.65	21.45
3	2	23.80	23.60	23.40

**NO. 813 DOVETAIL BITS**

Carbon Steel Threaded Shanks For All Machines

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1/4	5	\$2.20	\$2.15	\$2.12
5/16	5	2.20	2.15	2.12
3/8	5	2.20	2.15	2.12

**NO. 814 DOVETAIL BITS**High Speed Steel  
Threaded Shanks For All Machines

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1/4	5	\$5.60	\$5.50	\$5.40
5/16	5	5.60	5.50	5.40
3/8	5	5.60	5.50	5.40

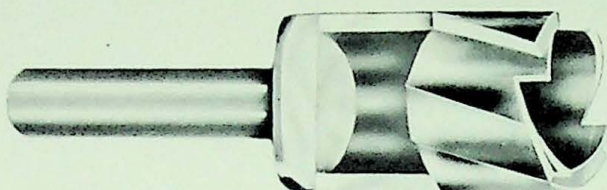
**NO. 815 DOVETAIL BITS**Carbide Tipped  
Threaded Shanks For All Machines

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1/4	5	\$11.00	\$10.50	\$10.00
5/16	5	11.00	10.50	10.00
3/8	5	11.00	10.50	10.00

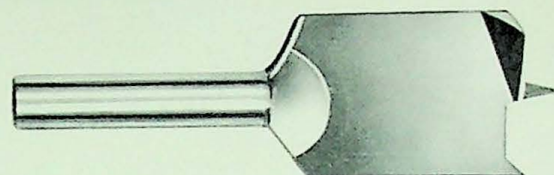
**NO. 816 DOVETAIL TRIMMER**

Price on Application



**NO. 600 PLUG CUTTERS** $\frac{1}{2}$  shank

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
$\frac{1}{4}$	4	\$10.00	\$9.90	\$9.80
$\frac{5}{16}$	4	10.00	9.90	9.80
$\frac{3}{8}$	4	8.00	7.90	7.80
$\frac{7}{16}$	4	8.00	7.90	7.80
$\frac{1}{2}$	4	8.00	7.90	7.80
$\frac{5}{8}$	3	8.80	8.70	8.60
$\frac{3}{4}$	3	9.60	9.50	9.40
$\frac{7}{8}$	3	11.20	11.10	11.00
1	3	12.80	12.65	12.50
1- $\frac{1}{8}$	2	13.60	13.45	13.30
1- $\frac{1}{4}$	2	14.40	14.25	14.10
1- $\frac{3}{8}$	2	16.00	15.85	15.70
1- $\frac{1}{2}$	2	19.20	19.05	18.90
1- $\frac{3}{4}$	1	24.00	23.85	23.70
2	1	28.80	28.65	28.50

**NO. 115 MACHINE CENTER BITS**Designed for shallow blind holes  $\frac{1}{2}$  shank

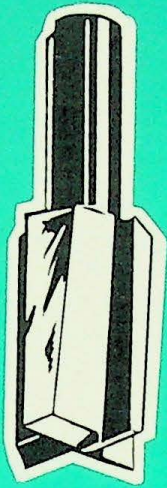
Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
$\frac{1}{2}$	12	\$2.90	\$2.40	\$1.90
$\frac{5}{8}$	12	2.95	2.45	1.95
$\frac{3}{4}$	12	3.00	2.50	2.00
$\frac{7}{8}$	12	3.20	2.70	2.20
1	12	3.35	2.85	2.35
1- $\frac{1}{8}$	6	3.85	3.35	2.85
1- $\frac{1}{4}$	6	4.15	3.65	3.15
1- $\frac{3}{8}$	6	4.60	4.10	3.60
1- $\frac{1}{2}$	6	4.80	4.30	3.80
1- $\frac{3}{4}$	6	5.10	4.60	4.10
2	6	5.80	5.30	4.80
2- $\frac{1}{4}$	6	6.50	6.00	5.50
2- $\frac{1}{2}$	4	7.25	6.75	6.25
2- $\frac{3}{4}$	4	7.65	7.15	6.65
3	4	8.40	7.90	7.40
3- $\frac{1}{2}$	4	10.50	10.00	9.50
4	1	12.50	12.00	11.50
4- $\frac{1}{2}$	1	20.00	19.00	18.00
5	1	22.50	21.50	20.00

**NO. 401 SHORT TWIST BITS** $\frac{1}{4}$  shank 2 In. Overall

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
$\frac{1}{4}$	12	\$1.60	\$1.40	\$1.20
$\frac{5}{16}$	12	1.65	1.45	1.25
$\frac{3}{8}$	12	1.70	1.50	1.30
$\frac{1}{2}$	12	1.80	1.60	1.40
$\frac{5}{8}$	12	1.85	1.65	1.45
$\frac{3}{4}$	12	1.90	1.70	1.50



# ***ROUTER CUTTERS***







## NO. X400 DOUBLE FLUTE ROUTER BITS

High Speed Steel

Dia.	Cutting Length	Dia. Shank	Length Shank	NET PRICE EACH TOOL			
				1 to 35 pcs.	36 to 71 pcs.	72 to 143 pcs.	144 to 288 pcs.
$\frac{3}{16}$	$\frac{5}{8}$	$\frac{1}{4}$	$1\frac{1}{4}$	\$1.15	\$1.09	\$1.04	\$ .98
$\frac{1}{4}$	$\frac{3}{4}$ or 1	$\frac{1}{4}$	$1\frac{1}{4}$	1.06	1.01	.95	.90
$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$	2.20	2.09	1.98	1.87
$\frac{5}{16}$	1	$\frac{1}{4}$	$1\frac{1}{4}$	1.45	1.38	1.31	1.23
$\frac{5}{16}$	1	$\frac{5}{16}$	$1\frac{1}{4}$	1.25	1.19	1.12	1.06
$\frac{5}{16}$	1	$\frac{1}{2}$	$1\frac{1}{2}$	2.20	2.09	1.98	1.87
$\frac{3}{8}$	1	$\frac{3}{8}$	$1\frac{1}{4}$	1.40	1.33	1.26	1.19
$\frac{3}{8}$	1	$\frac{1}{2}$	$1\frac{1}{2}$	2.20	2.09	1.98	1.87
$\frac{7}{16}$	$1\frac{1}{8}$	$\frac{1}{2}$	$1\frac{1}{2}$	2.20	2.09	1.98	1.87
$\frac{1}{2}$	$1\frac{1}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$	2.20	2.09	1.98	1.87
$\frac{1}{2}$	2	$\frac{1}{2}$	$1\frac{1}{2}$	3.95	3.75	3.55	3.36
$\frac{1}{2}$	$2\frac{1}{2}$	$\frac{1}{2}$	$1\frac{1}{2}$	4.50	4.27	4.05	3.82
$\frac{9}{16}$	$1\frac{3}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$	2.80	2.66	2.52	2.38
$\frac{5}{8}$	$1\frac{3}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$	3.00	2.85	2.70	2.55
$1\frac{1}{16}$	$1\frac{3}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$	4.20	3.99	3.78	3.57
$\frac{3}{4}$	$1\frac{3}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$	4.00	3.80	3.60	3.40
$1\frac{1}{16}$	$1\frac{3}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$	5.00	4.75	4.50	4.25
$\frac{7}{8}$	$1\frac{3}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$	5.00	4.75	4.50	4.25
1	$1\frac{3}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$	5.70	5.41	5.13	4.84
$1\frac{1}{8}$	$1\frac{3}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$	6.50	6.17	5.85	5.52
$1\frac{1}{4}$	$1\frac{3}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$	7.20	6.84	6.48	6.12
$1\frac{1}{2}$	$1\frac{3}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$	9.50	9.02	8.55	8.07
$1\frac{5}{8}$	$1\frac{3}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$	12.50	11.87	11.25	10.62
$1\frac{3}{4}$	$1\frac{3}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$	16.00	15.20	14.40	13.60
2	$1\frac{3}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$	18.00	17.10	16.20	15.30



## NO. X402 SINGLE FLUTE ROUTER BITS

High Speed Steel

Dia.	Cutting Length	Dia. Shank	Length Shank	NET PRICE EACH TOOL			
				1 to 35 pcs.	36 to 71 pcs.	72 to 143 pcs.	144 to 288 pcs.
$\frac{1}{8}$	$\frac{3}{8}$ or $\frac{1}{2}$	$\frac{1}{4}$	$1\frac{1}{4}$	\$ .98	\$ .93	\$ .88	\$ .83
$\frac{5}{32}$	$\frac{1}{2}$ or $\frac{5}{8}$	$\frac{1}{4}$	$1\frac{1}{4}$	.98	.93	.88	.83
$\frac{3}{16}$	$\frac{5}{8}$ or $\frac{3}{4}$	$\frac{1}{4}$	$1\frac{1}{4}$	.94	.89	.85	.80
$\frac{7}{32}$	$\frac{3}{4}$	$\frac{1}{4}$	$1\frac{1}{4}$	.98	.93	.88	.83
$\frac{1}{4}$	$\frac{3}{4}$ or 1	$\frac{1}{4}$	$1\frac{1}{4}$	.94	.89	.85	.80
$\frac{9}{32}$	1	$\frac{1}{4}$	$1\frac{1}{4}$	1.30	1.23	1.17	1.10
$\frac{5}{16}$	1	$\frac{1}{4}$	$1\frac{1}{4}$	1.43	1.36	1.29	1.21
$\frac{5}{16}$	1	$\frac{5}{16}$	$1\frac{1}{4}$	1.43	1.36	1.29	1.21
$\frac{3}{8}$	1	$\frac{3}{8}$	$1\frac{1}{2}$	1.45	1.38	1.30	1.23
$\frac{1}{2}$	1 or $1\frac{1}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$	2.45	2.33	2.20	2.08





## NO. 500 DOUBLE FLUTE CARBIDE TIPPED ROUTER BITS

Dia.	Cutting Length	Dia. Shank	Length Shank	NET PRICE EACH TOOL		
				1 to 12 pcs.	13 to 35 pcs.	36 or More pcs.
1/4	3/4	1/4	1-1/4	\$ 6.50	\$ 6.17	\$ 5.85
5/16	1	1/4	1-1/4	7.50	7.12	6.75
3/8	1	1/2	1-1/2	8.50	8.07	7.65
7/16	1	3/8	1-1/4	7.50	7.12	6.75
1/2	1-1/4	1/2	1-1/2	9.50	9.02	8.55
5/8	1-1/4	1/2	1-1/2	9.50	9.02	8.55
3/4	2	1/2	1-1/2	13.50	12.82	12.15
7/8	1-1/4	1/2	1-1/2	10.00	9.50	9.00
1	1-1/4	1/2	1-1/2	10.00	9.50	9.00
1-1/8	1-1/4	1/2	1-1/2	11.50	10.92	10.35
1-1/4	1-1/4	1/2	1-1/2	12.50	11.87	11.25
1-1/2	1-1/4	1/2	1-1/2	13.50	12.82	12.15
1-3/4	1-1/4	1/2	1-1/2	14.50	13.77	13.01
1-5/8	1-1/4	1/2	1-1/2	14.50	13.77	13.01
1-7/8	1-1/4	1/2	1-1/2	15.50	14.72	13.95



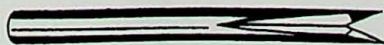
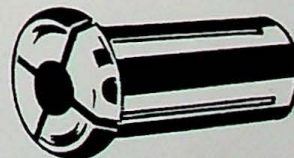
## NO. 502 SINGLE FLUTE ROUTER BIT

Carbide Tipped

Dia.	Cutting Length	Dia. Shank	Length Shank	NET PRICE EACH TOOL		
				1 to 12 pcs.	13 to 35 pcs.	36 or More pcs.
1/4	3/4	1/4	1-1/4	\$5.50	\$4.95	\$4.67
5/16	1	1/4	1-1/4	6.50	5.85	5.52
3/8	1	3/8	1-1/4	6.50	5.85	5.52
1/2	1-1/4	1/2	1-1/2	8.50	7.65	7.22

## NO. 4 ROUTER BUSHINGS

Outside Dia.	Inside Dia.	NET PRICE EACH TOOL
1/2	1/4, 5/16, 3/8	\$3.50



## NO. 406 STRAIGHT SHANK ROUTER

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
3/16	12	\$1.80	\$1.50	\$1.35
7/32	12	1.80	1.50	1.35
1/4	12	1.80	1.50	1.35
5/16	12	1.80	1.50	1.35



## NO. 407 MORTISE BITS

1/2 Shank

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1/4	6	\$2.70	\$2.55	\$2.40
5/16	6	2.70	2.55	2.40
3/8	6	2.70	2.55	2.40
1/2	6	2.70	2.55	2.40

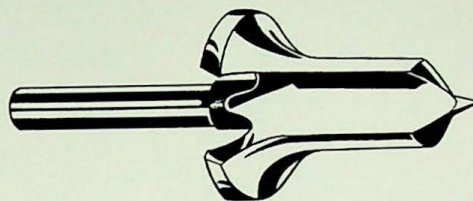




### NO. 408 MORTISE BITS

Straight Shank

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1/4	6	\$1.50	\$1.40	\$1.30
5/16	6	1.80	1.70	1.60
3/8	6	2.15	2.05	1.95



### NO. 409 HAND HOLE ROUTER BITS

1/2 Shank

Size	Tools per Unit	NET PRICE EACH TOOL		
		1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
7/8	2	\$20.00	\$18.00	\$16.00
1	2	22.00	20.00	18.00
1-1/8	2	23.50	21.50	19.50



### NO. X410 FORM CUTTING ROUTER BITS

High Speed Steel

Price on Application

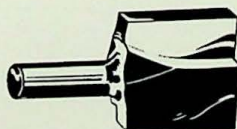
Please send drawing or sample when ordering



### NO. 405 TAPER BORING BIT

for Brush and Broom Industry

Price on Application



### NO. X411 ROUTER BLANKS\*

High Speed Steel

1/2 Shank

Size	Length Cutting Edge	Tools per Unit	NET PRICE EACH TOOL		
			1 pc. thru 3 Units	4 thru 6 Units	7 or more Units
1/2	1-1/2	4	\$ 7.00	\$ 6.65	\$ 6.30
3/4	1-1/2	4	7.50	7.12	6.75
7/8	1-1/2	4	8.00	7.60	7.20
1	1-1/2	4	8.60	8.17	7.74
1-1/8	1-1/2	4	9.50	9.02	8.55
1-1/4	1-1/2	4	10.50	9.97	9.45
1-3/8	1-1/2	4	11.50	10.92	10.35
1-1/2	1-1/2	4	12.50	11.87	11.25
1-5/8	1-1/2	4	13.50	12.82	12.15
1-3/4	1-1/2	4	14.50	13.77	13.05
1-7/8	1-1/2	4	15.50	14.72	13.95
2	1-1/2	4	16.50	15.67	14.85
2-1/4	1-1/2	4	18.50	17.57	16.65
2-1/2	1-1/2	4	20.00	19.00	18.00

\*4 wing also furnished-price on application



*SHAPER STEEL  
THIN KNIVES  
SLOTTED KNIVES*







# FOREST CITY TOOL COMPANY, HICKORY, NORTH CAROLINA

## HIGH SPEED BEVELED EDGED SHAPER STEEL IN BARS 24" LONG, HEAT TREATED & GROUND No Extra Charge for Lock-Edging at Time of Purchase

### PRICE PER BAR

<u>THICKNESS</u>	<u>*1/4"</u>	<u>5/16"</u>	<u>3/8"</u>	<u>1/2"</u>
1" wide or less	\$ 16.50	\$21.20	\$25.90	\$30.60
Over 1 to 1-1/2"	22.00	28.20	34.50	40.80
Over 1-1/2 to 2"	27.45	35.30	43.10	51.00
Over 2 to 2-1/2"	32.90	42.30	51.70	61.10
Over 2-1/2 to 3"	37.35	47.95	58.65	69.35
Over 3 to 3-1/2"	41.75	53.65	64.45	77.45
Over 3-1/2 to 4"	46.10	59.30	72.45	85.65
Over 4 to 4-1/2"		64.95	79.35	93.78
Over 4-1/2 to 5"		70.55	86.25	101.90

Sizes thicker than listed advance 1/2" price 10% for each 1/8" or fraction thicker.

Sizes wider than listed advance 5" price 10% for each 1/2" or fraction wider.

Bars made in 12 or 24 inch lengths and may be sold in other lengths on a proportional basis. No additional charge for cutting to shorter lengths.

When end beveled to make Shaper Knives, add \$1.30 per knife, plus standard extra charge when ground to pattern.

Steel sent in for Lock-Edging \$.35 per inch.

Irregular Cutting Edge Knives (not Moulding Knives) add \$1.80 per inch to the price of a straight edge knife.

Moulding Knives with pattern ground in the bevel add \$3.00 per inch to the price of a Straight Edge Knife.

\*1/8" and 3/16" thick Shaper Steel available at 1/4" price.

Prices subject to change without notice

August 1, 1960





## FOREST CITY TOOL COMPANY, HICKORY, NORTH CAROLINA

CORRUGATED BACK HIGH SPEED STEEL KNIVES  
5/16 Inch Thick or Less-PRICE PER KNIFE

<u>Length of Cutting Edge</u>	<u>2" Wide or Less</u>	<u>Over 2" to 2-1/4" Wide</u>	<u>Over 2-1/4" to 2-1/2" Wide</u>
1"	\$ 1.45	\$ 1.65	\$ 1.90
1-1/4"	1.75	2.00	2.30
1-1/2"	2.10	2.40	2.70
1-3/4"	2.40	2.75	3.15
2"	2.75	3.10	3.55
2-1/4"	3.10	3.50	4.00
2-1/2"	3.40	3.90	4.40
2-3/4"	3.70	4.25	4.80
3"	4.00	4.60	5.25
3-1/4"	4.35	5.00	5.65
3-1/2"	4.65	5.35	6.10
3-3/4"	5.00	5.75	6.50
4"	5.30	6.10	6.90
4-1/4"	5.65	6.50	7.35
4-1/2"	5.95	6.90	7.75
4-3/4"	6.30	7.25	8.20
5"	6.60	7.60	8.60
5-1/4"	6.90	8.00	9.00
5-1/2"	7.25	8.35	9.45
5-3/4"	7.55	8.70	9.85
6"	7.90	9.10	10.30
6-1/4"	8.20	9.45	10.70
6-1/2"	8.55	9.85	11.10
6-3/4"	8.85	10.20	11.55
7"	9.20	10.60	11.95
7-1/4"	9.50	10.95	12.40
7-1/2"	9.80	11.30	12.80
7-3/4"	10.15	11.70	13.20
8"	10.50	12.05	13.65
8-1/4"	10.80	12.45	14.05
8-1/2"	11.10	12.80	14.50
8-3/4"	11.45	13.20	14.90

Continued on back





FOREST CITY TOOL COMPANY, HICKORY, NORTH CAROLINA

CORRUGATED BACK HIGH SPEED STEEL KNIVES

<u>Length of Cutting Edge</u>	<u>2" Wide or Less</u>	<u>Over 2" to 2-1/4" Wide</u>	<u>Over 2-1/4" to 2-1/2" Wide</u>
9"	\$ 11.75	\$ 13.55	\$ 15.30
Over 9" long, per inch	1.30	1.50	1.70

All knives over 2-1/4" wide - add 20% for each 1/4" or fractional part thereof.

All knives over 5/16" thick - add 10% for each 1/16" or fractional part thereof.

MOULDING KNIVES with pattern ground in bevel add \$3.00 per inch to the price of a Straight Edge Knife.

IRREGULAR EDGE KNIVES (not moulding knives) add \$1.80 per inch to the price of a Straight Edge Knife.

SQUARE EDGE - above list less 10%.

LENGTH is measured to next 1/4".

Prices subject to change without notice  
August 1, 1960





FOREST CITY TOOL COMPANY, HICKORY, NORTH CAROLINA

THIN HIGH SPEED STEEL KNIVES--NOT SLOTTED

2" Wide or Less

<u>Thickness</u>	<u>5/32" and less</u>	<u>3/16" and less</u>	<u>1/4" and less</u>
2" long or less	\$ 1.55	\$ 1.95	\$ 2.70
over 2" to 3" each	1.85	2.35	3.30
over 3" to 4" each	2.30	2.90	4.05
over 4" to 5" each	2.75	3.45	4.80
over 5" to 6" each	3.30	4.15	5.80
over 6" long per inch	.55	.69	.97

Over 2" to 2-1/4" Wide

2" long or less	1.70	2.10	3.00
over 2" to 3" each	2.05	2.55	3.60
over 3" to 4" each	2.55	3.15	4.40
over 4" to 5" each	3.05	3.80	5.30
over 5" to 6" each	3.65	4.55	6.35
over 6" long per inch	.60	.76	1.07

Over 2-1/4" to 2-1/2" Wide

2" long or less	1.85	2.30	3.25
over 2" to 3" each	2.25	2.80	3.95
over 3" to 4" each	2.75	3.45	4.85
over 4" to 5" each	3.30	4.15	5.80
over 5" to 6" each	3.95	4.95	6.95
over 6" long per inch	.66	.83	1.16

SLOTTED KNIVES, add 15% to Not Slotted prices.

MOULDING KNIVES with pattern ground in bevel add \$3.00 per inch to the Straight Knife price of the same material and dimensions.

SQUARE EDGE STEEL- use above list less 10%

Knives wider than 2-1/2", advance 2-1/2" price 10% for each half inch or fraction.

IRREGULAR CUTTING EDGE KNIVES(not moulding knives) add \$1.80 per inch to the price of a Straight Edge Knife.

MAXIMUM LENGTH AVAILABLE-----24"

Prices subject to change without notice

August 1, 1960





# FINE WOOD CUTTING TOOLS SINCE 1890

## SOLID HIGH SPEED KNIVES - SLOTTED OR NOT SLOTTED

Price per Knife  
5/16" Thick

	3" Wide or less	Over 3" to 3-1/2"	Over 3-1/2" to 4"	Over 4" to 4-1/2"	Over 4-1/2" to 5"
2" long or less	\$5.55	\$6.05	\$6.65	\$7.30	\$8.05
Over 2 to 3"	6.60	7.25	8.00	8.80	9.70
Over 3 to 4"	7.70	8.45	9.30	10.25	11.30
Over 4 to 5"	9.45	10.40	11.40	12.60	13.80
Over 5 to 6"	11.20	12.30	13.60	14.95	16.45
Over 6" long per In.	2.00	2.20	2.42	2.65	2.95

3/8 Thick

2" long or less	6.15	6.70	7.35	8.10	8.90
Over 2 to 3"	7.32	8.10	8.85	9.70	10.75
Over 3 to 4"	8.60	9.40	10.35	11.40	12.55
Over 4 to 5"	10.51	11.55	12.65	13.95	15.35
Over 5 to 6"	12.50	13.70	15.05	16.60	18.25
Over 6" long per In.	2.20	2.42	2.64	2.95	3.25

7/16" Thick

2" long or less	6.65	7.30	8.10	8.90	9.80
Over 2 to 3"	8.10	8.85	9.75	10.75	11.85
Over 3 to 4"	9.40	10.35	11.40	12.55	13.75
Over 4 to 5"	11.60	12.71	13.95	15.40	16.90
Over 5 to 6"	13.70	15.05	16.55	18.25	20.10
Over 6" long per In.	2.42	2.64	2.93	3.23	3.55

1/2" Thick

2" long or less	7.05	7.70	8.45	9.30	10.25
Over 2 to 3"	8.40	9.24	10.20	11.15	12.40
Over 3 to 4"	9.80	10.80	11.90	13.10	14.40
Over 4 to 5"	12.10	13.25	14.60	16.05	17.65
Over 5 to 6"	14.30	15.75	17.35	19.10	21.00
Over 6" long per In.	2.53	2.77	3.06	3.37	3.72

WIDTH - Over 5" advance the 5" price 10% for each 1/2" or fraction

LENGTH - is measured to the next full inch.

THICKNESS - Knives thinner use Thin Knife List

IRREGULAR EDGE KNIVES - (not moulding knives) add \$1.80 per inch to the price of a straight edge knife of same material and dimension.

MOULDING KNIVES - with pattern ground in bevel add \$3.00 per inch to the price of a straight edge knife of the same material and dimension.

SQUARE EDGE STEEL - use above list less 10%

IRREGULAR SIDES & ENDS - advance price \$2.10 per knife.

Prices subject to change without notice  
August 1, 1960





FOREST CITY TOOL COMPANY, HICKORY, NORTH CAROLINA

HIGH SPEED STEEL LATHE KNIVES  
(Bent or Straight)

<u>Length of Cutting Edge</u>	<u>Price</u>
1-1/2" long or less	\$ 2.15
1-3/4"	2.38
2"	2.63
2-1/2"	3.00
3"	3.30
3-1/2"	4.00
4"	4.45
4-1/2"	4.80
5"	5.38
5-1/2"	6.10
6"	6.70
6-1/2"	7.22
7"	7.77
7-1/2"	8.33
8"	8.88

Cylinders for Automatic Lathe 2-5/8 bore, 2-11/16 bore 4.95 per inch

CARRIERS FOR AUTOMATIC LATHE HEAD

<u>Size</u>		<u>Price</u>
Right Hand	Left Hand	
B-50	A-50	\$ 2.75
B-51	A-51	3.00
B-52	A-52	3.88
B-53	A-53	4.12
B-54	A-54	4.12
B-71	A-71	4.37
B-72	A-72	4.62
B-73	A-73	5.49
B-78	A-78	13.57
W-55	M-55	8.25
W-56	M-56	9.59
W-58	M-58	9.06
W-59	M-59	9.59
W-74	M-57	14.75
W-82	M-82	8.75
E-57	D-57	3.50
E-58	D-58	3.50
E-59	D-59	3.50

August 1, 1960







# FOREST CITY CARBIDE TIPPED SAWS

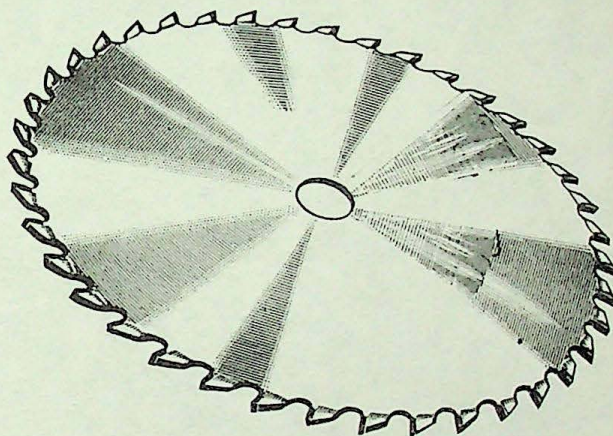
## FOREST CITY BIT & TOOL COMPANY

Since 1890

Phone Diamond 5-7124  
17th St. & 9th Ave., N. W.  
HICKORY, NORTH CAROLINA

### Guarantee

All saws are 100% guaranteed as to quality and workmanship, and any tip that comes cleanly out of the recess will be replaced free of charge. Tips that are damaged in operation, some of the carbide remaining in the recess, will necessarily have to be charged for, as this condition indicates that the saw received abusive use, or has met with an accident while in operation, and these tips will be charged for. We build up all broken backs, retention and cut expansion slots at no extra charge.



DIAMETER	NUMBER OF TEETH					
	24	30	36	60	80	100
12"	\$57.00	\$60.00	\$64.00	\$78.50	\$90.00	
14"	58.50	62.50	66.50	80.00	92.00	\$110.00
16" X		64.00	X 68.50	85.50	96.00	112.00
18"		68.00		91.00	98.00	114.00

TIPS REPLACED \$1.00 each

### SHARPENING:

10 teeth or less 4.00

36 teeth or less 6.00

60, 80 or 100 teeth 10.00

SIZES NOT LISTED ARE  
AVAILABLE - PRICES  
UPON REQUEST.

*Rd.  
1 1/4 order*